

Amendments to the Specification:

Please replace paragraph [0031] and [0032] with the following amended paragraphs:

[0001] If at step 144 the echo in the current range gate exceeds the ~~INTENSITY~~ INTENSITY threshold, the value is not changed and the next range gate is examined. If the echo in the current range gate does not exceed the ~~INTENSITY~~ INTENSITY threshold, then at step 146, the current range gates for radials N-2 and N+2 (see, Fig. 9, where N is the current radial being examined) are examined to see if the echo for the current range gate for those radials is zero. It is assumed that if solar interference is present for radial N, that it will likely only affect radial N and radials N +/-1, but not radials +/-2. Thus, if the range gates for the radials N-2 and N+2 are not zero, then the value of the current range gate for radial N is not changed at step 152 and the next range gate for the radial is examined at step 142. Otherwise, at step 150 the value of the current range gate for radial N is set to 0 at step 150 and the next range gate for the radial is examined at step 142.

[0002] Once all of the range gates are examined at steps 142-152, then the phase 2 is performed beginning at step 154 where for each range gate of the N+1 and N-1 radial(s), it is determined at step 156 if an echo in the current range gate exceeds an INTENSITY threshold. The INTENSITY threshold is the same as noted above with regard to step 144. If at step 156 the echo in the current range gate exceeds the ~~INTENSITY~~ INTENSITY threshold, the value is not changed and the next range gate is examined at step 154. If the echo in the current range gate does not exceed the ~~INTENSITY~~ INTENSITY threshold, then at step 158, the current range gates for radials N-1 and N+1 are examined to see if the echo for the current range gate for those radials is zero. Thus, if the range gates for the radials N-1 and N+1 are not zero, then the value of the current range gate for radial N is not changed at step 164 and the next range gate for the radial is examined at step 142. Otherwise, at step 162 the value of the current range gate for the radial is set to 0 at step 162 and the next range gate for the radial is examined at step 154. Once all range gates are examined at steps 154-164, the process exits at step 166 to return to step 118, where the main routine exits.